

THE JOHNS HOPKINS UNIVERSITY  
BALTIMORE

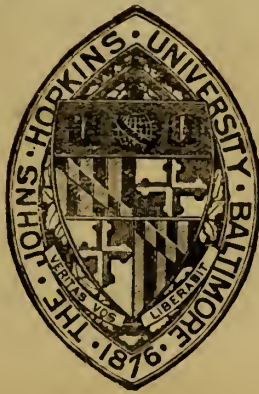
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# CONFERRING OF DEGREES

AT THE CLOSE OF THE FORTY-SEVENTH ACADEMIC YEAR

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JUNE 12, 1923



IN THE LYRIC THEATRE

AT 4 P. M.

#### MARSHALS

Professor J. E. GILPIN

*Chief Marshal*

Major E. B. GAREY

*Assistant Chief Marshal*

#### *Aids*

Professor W. J. A. BLISS

Professor H. C. LANCASTER

Professor A. W. FREEMAN

Professor R. B. ROULSTON

Professor R. H. FOLLIS

Professor J. C. SMALLWOOD

Dr. R. T. ABERCROMBIE

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#### USHERS

HUGH M. SMALLWOOD, *Chief Usher*

#### *Aids*

JOHN H. CROKER, *Assistant Chief*

FITZGERALD DUNNING, *Assistant Chief*

D. MILES MARRIAN, *Assistant Chief*

R. PAGE O'CONNOR, *Assistant Chief*

CLARENCE T. ADAMS

LUDLOW H. BALDWIN

VERNE H. BOOTH

J. EDWARD BROWN

C. PEARCE COADY

W. CARVILLE GARDNER

ROBERT C. GRIFFITH

ISAAC HAMBURGER

ALGER HISS

J. HENRY HOOPER

ROBERT M. HOPKINS

CHARLES G. HUTZLER

THOMAS M. JENIFER

HUGH J. JEWETT, 3d

DANIEL E. KLEIN

A. ROBERTSON MIDDLETON

J. EDWARD MOUNT

RANDOLPH NORWOOD

JOHN W. PARSONS

GEORGE M. SHRIVER, JR.

L. DONN STEVENS

GORDON M. STICK

T. STRAN SUMMERS

W. EDWARD THOMSEN, JR.

DOUGLAS C. TURNBULL, JR.

EDWARD H. WATSON

JOHN R. WEBSTER

ROBERT I. WELSH

# ORDER OF EXERCISES

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## I

### PROCESSIONAL

March from "Athalia"—*Mendelssohn*

## II

### INVOCATION

Rev. GEORGE A. HULBERT, D. D.  
Pastor of Brown Memorial Presbyterian Church

## III

### MUSIC

Kamennoi Ostrow (Cloister Scene)—*Rubinstein*  
Arranged for orchestra by Ross Jungnickel

## IV

### CONFERRING OF DEGREES

Bachelors of Arts, presented by Dean LATANÉ  
Bachelors of Engineering, presented by Dean WHITEHEAD  
Bachelors of Science in Chemistry, presented by Dean WHITEHEAD  
Bachelors of Science, presented by Professor BUCHNER  
Proficients in Public Health, presented by Professor HOWELL  
Masters of Arts, presented by Professor MILLER  
Doctors of Philosophy, presented by Professor MILLER  
Doctors of Public Health, presented by Professor HOWELL  
Doctors of Science in Hygiene, presented by Professor HOWELL  
Doctors of Medicine, presented by Dean WILLIAMS

## V

PRESENTATION OF COMMISSIONS IN THE MEDICAL OFFICERS' RESERVE CORPS

## VI

### MUSIC

Two Hungarian Dances—*Brahms*

## VII

### PRESENTATION OF A PORTRAIT OF

The late Professor HARRY C. JONES  
Professor J. SAM GUY, of Emory University

## VIII

### ANNOUNCEMENTS

THE PRESIDENT OF THE UNIVERSITY

## IX

### MUSIC

University Ode "Veritas vos Liberabit"—*Starr*

# CANDIDATES FOR DEGREES

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## BACHELORS OF ARTS

WILLIAM CARROLL ARMACOST, of Maryland  
RIGNAL WOODWARD BALDWIN, JR., of Maryland  
BERNARD JACOB BAMBERGER, of New York  
HOWARD SCHWAB BENEDICT, of Maryland  
CARL WILLIAM BUCHHEISTER, of Maryland  
EDWARD FRANKLIN BUCHNER, JR., of Maryland  
OLIVER DALE COLLINS, JR., of Maryland  
MICHAEL JENKINS CROMWELL, of Maryland  
HENRY MARTIN PERKINS DAVIDSON, of Maryland  
DANIEL LEWIS DAVIS, of Maryland  
FREDERICK WILLIAM DOERMANN, of Maryland  
HARRY EAGLE, of MARYLAND  
SAMUEL S. EISENBERG, of Maryland  
CHARLES COLEMAN GRIFFITH EVANS, of Maryland  
LAWRENCE BRITTINGHAM FENNEMAN, of Maryland  
JACOB ELLIS FINESINGER, of Maryland  
ARTHUR IRVIN FINK, of Maryland  
WHITMER BENNETT FIROR, of Maryland  
HERBERT KELCEY GAULT, of Maryland  
EZRA READ GOODRIDGE, JR., of Maryland  
JACOB LUTHER HAIN, of New York  
GEORGE EDWARD HARDY, JR., of Baltimore  
BERNARD CARTER HEARN, of the District of Columbia  
CHRISTIAN PAUL HEINLEIN, of Maryland  
HOWARD BAKER HENSEL, of Maryland  
JOHN FRANK HEWITT, of Maryland  
NORMAND LOUIS HOERR, of Illinois  
WILLIAM SIMON HOFFMEISTER, of Maryland  
HOWARD HANFORD HOPKINS, of Maryland  
JOSEPH WISTAR HUEY, JR., of Maryland  
JAMES HUDSON HUFFARD, of Virginia  
PAUL LANE IVES, of Maryland  
WALTER BRENNAMAN JOHNSON, of Maryland  
ABRAHAM KATZEN, of Maryland  
LOUIS AUGUSTUS KELLEY, of Maryland

JESSE DALLAS KIRWAN, of Maryland  
THOMAS MATTHEW LANDY, of Maryland  
ABRAHAM JUDA LEVY, of Palestine  
PETER STEWART MACAULAY, of Pennsylvania  
GEORGE EDWARD MANGER, of Maryland  
JOHN ARTHUR MANGER, of Maryland  
LOUIS WILLIAM MAX, of Maryland  
ATHERTON H. MEARS, of the District of Columbia  
WILLIAM NEVIUS MERRICK, of Maryland  
SAMUEL ATHERTON MIDDLETON, of Maryland  
MEYER MILLER, of Maryland  
WILLIAM HANSON MOORE, JR., of Maryland  
JOSEPH ALOYSIUS MORAN, of Maryland  
FOSTER MORRELL, of the District of Columbia  
JUSTUS FREDERICK MÜLLER, of Maryland  
GEORGE HENRY NIEMEYER, of Maryland  
BENJAMIN SUNDERLAND RICH, of Maryland  
WILLIAM CHRISTIAN ROBERTS, of Maryland  
MAX ROSEN, of Maryland  
JOHN ROBERTS SHERWOOD, of Maryland  
JOHN DORSEY SLAUGHTER, of Maryland  
WILBUR KENNETH SMITH, of Maryland  
EARLE BISH SNADER, of Maryland  
MAURICE RENÉ STÉPHAN, of France  
JOHN PHILIP STUMP, of Maryland  
WEBSTER THOMAS TURNER, of Maryland  
DONALD KERR VANNEMAN, of Maryland  
JOSEPH DUNN VIRDIN, JR., of Maryland  
WALTER WASSERMAN, of Maryland  
HENRY DOWNMAN WEST, of Maryland  
WILBUR FRANK WHEELER, of Maryland  
LEROY ALBERT WILBUR, of Maryland  
PARKER CLOYD WILLIAMS, of Maryland  
OLIVER WOLCOTT, of Maryland  
JOSEPH McLANE ZOLLER, JR., of Maryland

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## HONOR LIST

BERNARD JACOB BAMBERGER  
LOUIS AUGUSTUS KELLEY  
FREDERICK WILLIAM DOERMANN

LOUIS WILLIAM MAX  
LAWRENCE BRITTINGHAM FENNEMAN  
JACOB ELLIS FINESINGER

HARRY EAGLE



## BACHELORS OF ENGINEERING

ARTHUR W. ALBAUGH, of Maryland  
WILLIAM THOMAS ALDERSON, of Maryland  
THOMAS LANSDALE BERRY, JR., of Maryland  
HAROLD BRESLAU, of Maryland  
FREDERICK EUGENE BRUMBLE, of Maryland  
FRANCIS GANDY COLE, of Maryland  
GERALD WISTAR COOKE, of Maryland  
MARVIN MARRIOTT CROUT, of Maryland  
CARL ELMORE CUMMINGS, of the District of Columbia  
RAYMOND CHARLES DANNETTEL, of Maryland  
HENRY FLORY DAVIS, of Maryland  
ADAM AUSTIN DIETRICH, of Maryland  
MILTON DAVID MICHAEL EGNER, of Maryland  
GLOVER PATTERSON FALLON, of Maryland  
PIERRE MOWELL GIENT, of Maryland  
WILLIAM LEWIS HARWETEL, of Maryland  
JOSEPH CHARLES HAUF, JR., of Maryland  
CARVEL HENSEN, of Maryland  
JOHN LAWRENCE HILDEBRANDT, of Maryland  
GEORGE JOSEPH HILL, of the District of Columbia  
HERMAN LEHMAN HOLSOFFLE, of Maryland  
EDWARD WILMER JACKSON, JR., of Maryland  
LESTER BRYAN KINNAMON, of Maryland  
MORGAN DAVENPORT LALOR, of Maryland

JAMES HENRY LEONARD, of Maryland  
HOWARD ALBERT MACCUBBIN, of Maryland  
LEROY FREDERICK MATHIEWS, of Maryland  
ANTON SYLVESTER MUESSEN, of Maryland  
JOHN NEWTON MURPHY, of Maryland  
WILLIAM JOSEPH OGLEBAY, of Maryland  
WILLIAM MOORE PASSANO, of Maryland  
GEORGE MARVIN RUOFF, of Maryland  
EDWARD JOHN SCHAEFER, of Maryland  
HAROLD McDONALD SEITZ, of Maryland  
ARTHUR HENRY SENNER, of Maryland  
GEORGE VAN BIBBER SHRIVER, of Maryland  
WALTER HENRY SOMERVILLE, of Maryland  
CARL JOHN SPEER, JR., of Maryland  
RICHARD ROBB TAYLOR, of Maryland  
WILLIAM PRESTON TAYLOR, of Maryland  
ALFRED LEE TIPTON, of Maryland  
WILLIAM BENNETT TUCKER, of Maryland  
HENRY HOLMES VOGEL, of Maryland  
CALVIN NORWOOD WARFIELD, of Maryland  
CHARLES OSCAR WHERLEY, of Maryland  
JAMES WASHINGTON WILLS, of Maryland  
MORRIS ZELDITCH, of Maryland

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### HONOR LIST

#### *Electrical Engineering*

WILLIAM THOMAS ALDERSON

HENRY HOLMES VOGEL

#### *Mechanical Engineering*

JOHN NEWTON MURPHY

RAYMOND CHARLES DANNETTEL

## BACHELORS OF SCIENCE IN CHEMISTRY

WILLARD WALKER ALDRICH, of Maryland  
PAUL WILLIAM BACHMAN, of Pennsylvania  
ANDREW LYLE BOLTON, of Maryland  
PAUL MERLE BUHRER, of the District of Columbia  
LOUIS MORTON GINSBERG, of Maryland

HOWARD WILFRED GRACE, of Maryland  
PHILIP ISRAEL HEYMAN, of Maryland  
HENRY ROCHAMBEAU JOESTING, of Maryland  
FREDERICK JASPERSEN RICH, of Maryland  
FRANK WILEN, of Maryland

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## BACHELORS OF SCIENCE

JOHN TURNER BAMBERGER, of Maryland  
SARAH JANET BASSETT, of Maryland  
HUGH WRIGHT CALDWELL, of Maryland  
IDA VIRGINIA FLOWERS, of Maryland  
MARIE VIRGINIA HEAPHY, of Maryland  
MARGARET RHODES HOKE, of Maryland  
LOUISE WHITE LINTHICUM, of Maryland  
MARIE LUCILE LINTHICUM, of Maryland  
HAMLINE BAKER MAGINNIS, of Maryland

FRANCES JOSEPHINE MANN, of Maryland  
ALICE ETTA MILLER, of Maryland  
GRACE DUDREA PARKER, of Maryland  
VIRGINIA MAE SHAFFER, of Maryland  
ANNABEL LEE WHITE, of Maryland  
ELIZABETH GENEVIEVE WHITE, of Maryland  
MARY MARJORIE WILLS, of Maryland  
EVA MYRTLE WOOLFORD, of Maryland  
URSULA R. S. YEAWORTH, of Maryland

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## RECIPIENTS OF CERTIFICATES IN PUBLIC HEALTH

- SALVADOR BERMUDEZ, of Mexico, M.D. National University of Mexico 1921
- EUGENE LINDSAY BISHOP, of Tennessee, M.D. Vanderbilt University 1914
- DOUGLAS LAUNESE CANNON, of South Carolina, S.B. Clemson College 1913, M.D. Jefferson Medical College 1919
- PLATT WALKER COVINGTON, of North Carolina, M.D. University of Maryland 1908
- CARL RUPP DOERING, of Texas, A.B. Texas Christian University 1921, M.D. Baylor Medical College 1921
- FERNANDO DE FREITAS E CASTRO, of Brazil, Graduate, Medical School of Porto Alegre 1910
- JORGE DUTRA FRAGOSO, of Brazil, M.D. University of Rio Janeiro 1912
- NUNO GUERNER, of Brazil, M.D. University of Rio Janeiro 1913
- MARVIN FLETCHER HAYGOOD, of Georgia, M.D. Emory University 1915
- EUGENIO HERNANDO-BARONA, of the Philippine Islands, A.B. Institute of Burgos (Spain) 1892, M.D. St. Tomas University (Philippine Islands) 1908
- HOU-KI HU, of China, M.D. Government Medical College (Peking) 1916
- HILARIO LARA, of the Philippine Islands, M.D. University of the Philippines 1919.
- WALDEMIRO DE OLIVEIRA, of Brazil, Graduate, Medical School, University of Rio Janeiro 1915
- FRED LOWE SOPER, of Kansas, A.B. University of Kansas 1914, M.D. Rush Medical College 1918
- JAMES SHIRLEY SWEENEY, of Texas, A.B. Texas Christian University 1917, M.D. Vanderbilt University 1921
- ALFRED DENT TISDALE, of Mississippi, S.B. University of Mississippi 1918, M.D. Tulane University 1920

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## MASTERS OF ARTS

### WITH TITLES OF ESSAYS

- HELEN LOUISE ADAMS, of Maryland, A.B. Goucher College 1919. Physics  
Sir J. J. Thomson's Electron Theory of Solids
- CARLOS VAZQUEZ ARJONA, of Porto Rico, B.S. Johns Hopkins University 1920. Spanish  
Elementos Autobiograficos en el Teatro de Don Juan Ruiz de Alarcón y Mendoza
- CHARLES EVERETT BILLS, of Massachusetts, B.S. Johns Hopkins University 1920. Zoology  
The Reactions of Paramecium to the Lower Alcohols
- JOHN THOMAS CHAPPELL, of North Carolina, B.S. Guilford College 1913. Chemistry  
Catalytic Esterification over Silica Gel
- LYDIA MARGARETTA CULVER, of Maryland, A.B. Goucher College 1921. Political Economy  
A History of the Baltimore Association for the Improvement of the Condition of the Poor
- HERBERT NELSON EATON, of Maryland, B.S. Worcester Polytechnic Institute 1916. Physics  
The Venturi Tube and its Applications
- ABRAHAM LEONARD FINESINGER, of Maryland, A.B. Johns Hopkins University 1921. Psychology  
A Survey of Experimental Work on the Rhythm of Speech
- SOL BARUCH FINESINGER, of Maryland, A.B. Johns Hopkins University 1921. Hebrew  
The Musical Instruments in the Old Testament
- WILLIAM RICHARDSON FLOWERS, of Maryland, B.S. Johns Hopkins University 1920. Education  
Will the General Intelligence Test Function in Program Guidance in the Senior High School?
- PAUL ROBERT FOSSUM, of Minnesota, A.B. Park Region Luther College 1915. Political Economy *History*  
The Anglo-Venezuelan Boundary Controversy
- EDWARD EARLE FRANKLIN, of Maryland, A.B. Western Maryland College 1921. Education  
Vocational Interests and Aptitudes of Junior High School Pupils
- JAMES QUINTER HOLSOPPLE, of Maryland, A.B. Juniata College 1920. Psychology  
Factors Affecting the Duration of Post-Rotation Nystagmus
- MARTHA LOUISE KERN, of Virginia, A.B. Randolph-Macon Woman's College 1919. English  
Enough is as Good as a Feast: An Interlude by W. Wager. Edited, from the Henry E. Huntington Facsimile Reprint of the Original Edition of 1560-65, with Introduction, Notes, and Glossary.
- EMMETT KILPATRICK, of Alabama, A.B. Maryville College 1915. History  
Political History of Alabama from 1861-1865
- JOSEPH LEVY, of Canada, B.S. College of the City of New York 1921. Zoology  
Studies on Reproduction in *Amoeba Proteus*
- BRUCE LINEBURG, of Maryland, A.B. Ohio University 1915. Zoology  
Evidence of Evolution in the *Hymenoptera*
- RUTH ELIZABETH MEETH, of Maryland, A.B. Goucher College 1918. Political Economy  
The Child-Placing Work of the Henry Watson Children's Aid Society
- ROSE LILLIAN PASTERNAK, of Maryland, A.B. Goucher College 1920. Political Economy  
A Study of Dependent Related Families
- EARLE KEITH PLYLER, of South Carolina, A.B. Furman University 1917. Physics  
The Near Infra-Red Absorption Bands of Diatomic Gases



ALICE DUDEK PRICE, of Maryland, A.B. Goucher College 1917. English

A Study of John Heywood's "The Spider and the Flie"

BRUCE HAMPTON REDDITT, of Maryland, A.B. Randolph-Macon College 1910. Mathematics

On Weierstrass' Theory of Elliptic Functions

ARTHUR EDWARD RUARK, of Maryland, A.B. Johns Hopkins University 1921. Physics

The Hydrogen Balmer Series and the Impossibility of Further Corrections to the Quantizing of Hydrogenic Atoms

HAROLD JULIAN STEWART, of Virginia, A.B. Johns Hopkins University 1915 and M.D. 1919. Medicine

Observations on the Blood Gases in Auricular Fibril-

lation and after the Restoration of the Normal Mechanism

HITOSHI SUZUKI, of Japan, Master of Commerce, Meiji University 1920. Political Economy

Post-War Adjustment in Japan

RUTH TINGLEY, of Maryland, A.B. Goucher College 1914. Political Economy

The Unmarried Mother and her Child

LENA CHEW VAN BIBBER, of Maryland, B.S. Columbia University 1917. History

English Town Life in the Sixteenth Century

MARGARET KATHRYN WHISTLER, of Maryland, A.B. Goucher College 1921. Political Economy

Juvenile Probation in Baltimore

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## DOCTORS OF PHILOSOPHY

### WITH TITLES OF DISSERTATIONS

FRANCES ELIZABETH BALDWIN, of Maryland, A.B. Goucher College 1920, A.M. Johns Hopkins University 1922. History, Political Science, and Political Economy

Sumptuary Legislation and Personal Regulation in England

VOLA PRICE BARTON, of Maryland, A.B. Goucher College 1915, A.M. Mt. Holyoke College 1917. Physics, Applied Mathematics, and Geophysics

Light Sensitivity of Cuprous Oxide and of Selenium

THOMAS MORRIS BERRY, of Maryland, B.S. in Chem. Johns Hopkins University 1920 and A.M. 1922. Chemistry, Physical Chemistry, and Mathematics

The Alkylation of Benzene, Toluene, and Naphthalene, and the Chlorination of Acetylene

HAROLD CLYDE BINGHAM, of the District of Columbia, A.B. Ellsworth College 1910, A.M. Harvard University 1912. Psychology, Applied Psychology, and Philosophy

Visual Perception of the Chick

ESTHER JOSEPHINE CROOKS, of West Virginia, Ph.B. Denison University 1909, A.M. Johns Hopkins University 1921. Spanish, French, and Italian

The Influence of Cervantes in France during the First Half of the Seventeenth Century

MILDRED ELIZABETH DAY, of Maryland, A.B. Goucher College 1920, A.M. Johns Hopkins University 1922. Psychology, Zoology, and Philosophy

The Influence of Mental Activities on Vascular Processes

NORMAN FITZHUGH EBERMAN, of Maryland, B.S. Franklin and Marshall College 1919, M.S. University of Maine 1921. Chemistry, Physical Chemistry, and Mathematics

A Study of the Adsorption from Solution from the Standpoint of Capillarity

ALEXANDER ELLETT, of Missouri, A.B. University of Colorado 1920. Physics, Mathematics, and Applied Mathematics

The Effect of Weak Magnetic Fields upon the Polarization of Light Scattered by Metallic Vapors

DUNCAN GRAHAM FOSTER, of Massachusetts, A.B. Harvard University 1918. Chemistry, Physical Chemistry, and Bacteriology

I. The Addition of Esters to Phenyl Nitro Ethylene

II. The Addition of Nitromethane to Diunsaturated Ketones

III. The Influence of Sulphur on the Color of Azo Dyes

THOMAS BROOKS GRAVE, of Missouri, A.B. Johns Hopkins University 1919. Chemistry, Physical Chemistry, and Pharmacology

Attempts to Prepare 1—Methyl 2—Methoxy-Piperidine: The Hydrogenation of Certain Pyridine Derivatives

BARTOW GRIFFISS, of Maryland, A.B. Johns Hopkins University 1920. Political Economy, Political Science, and Psychology

The New York Call Money Market

ARTHUR GROLLMAN, of Maryland, A.B. Johns Hopkins University 1920. Chemistry, Physical Chemistry, and Mineralogy

The Measurement of Osmotic Pressure and its Application to a Study of Aqueous Phenol Solutions

FREDERICK CHARLES HAHN, of Maryland, B.S. in Chem. Eng. University of Illinois 1916. Chemistry, Physical Chemistry, and Mathematics

Some New Substituted Benzoyl-Ortho-Benzonic Acids and their Corresponding Anthraquinones

GEORGE MARTIN HALL, of Maryland, A.B. Johns Hopkins University 1915. Geology, Economic Geology, and Physical Chemistry

The Paragenesis of the Bolivian Silver-Tin Ores

SAMUEL JAMES HART, of Virginia, A.B. University of Virginia 1918. Political Science, Political Economy, and History

The Ordinance-Making Powers of the President of the United States

- ERNEST LESLIE HIGHBARGER, of Illinois, A.B. Mt. Morris College 1908. Classical Archaeology, Latin, and Sanskrit  
 Chapters in the History and Civilization of Ancient Megara
- JOHN EDWARD HOFFMEISTER, of Maryland, A.B. Johns Hopkins University 1920. Geology, Paleontology, and Biology  
 Some Corals from American Samoa and the Fiji Islands
- PAO CHAO HSIEH, of China, A.B. Johns Hopkins University 1920. Political Science, Political Economy, and History  
 The Government of China (1644-1911)
- STELLA AGNES MCCARTY, of Maryland, A.B. Goucher College 1892. Psychology, Education, and Philosophy  
 Children's Drawings, a Study of Interests and Abilities
- LOUIS HASTINGS NAYLOR, of Maryland, A.B. Johns Hopkins University 1917 and A.M. 1922. French, Spanish, and Latin  
 Chateaubriand and Virgil
- SIDNEY STEVENS NEGUS, of Maryland, A.B. Clark University 1913, A.M. Harvard University 1917. Chemistry, Physical Chemistry, and Bacteriology  
 The Vapor Pressure of Aqueous Solutions of Sodium Chloride at Twenty-Five Degrees Centigrade
- LOUIS JEROME PESSIN, of Maryland, B.S. University of Georgia 1916. Botany, Plant Physiology, and Zoology  
 A Biological Study of *Polypodium Polypodioides* (Resurrection Fern) as an Air Plant in Mississippi
- MARGARET LAURA POTTER, of Ohio, A.B. Oberlin College 1915. Psychology, Philosophy, and Zoology  
 The Effect of Length and Type of Material upon Learning
- WALTER CREIGH PRESTON, of Virginia, A.B. Washington and Lee University 1915. Chemistry, Physical Chemistry, and Bacteriology  
 A Study of Adsorption Phenomena in the Vicinity of the Critical Temperature
- FRANK LEIGH ROBESON, of Virginia, B.S. Virginia Polytechnic Institute 1904, A.M. Columbia University 1913. Physics, Mathematics, and Astronomy  
 The Infra-Red Spectrum of Helium in a Long Discharge Tube. (With W. W. STEFFEY)
- JAMES BLAINE SCARBOROUGH, of Maryland, A.B. University of North Carolina 1913. Mathematics, Applied Mathematics, and Geological Physics  
 Some Problems on the Lift and Rolling Moment of Airplane Wings
- MARK HOWARD SECRIST, of Pennsylvania, A.B. Gettysburg College 1918. Geology, Economic Geology, and Biology  
 The Zinc Deposits of East Tennessee
- CLARENCE ALBERT SHOOK, of Maryland, A.B. Western Reserve University 1916, A.M. Harvard University 1918. Mathematics, Applied Mathematics, and Geological Physics  
 The Distribution of Lift over Thin Wing Sections
- ROGER HULL SINDEN, of Colorado, A.B. Colorado College 1918. Physics, Applied Mathematics, and Mathematics  
 A Study of the Spectral Complementaries:
- I. Individual Variations of the Normal Color-Sense
  - II. Subjective Saturation of Spectral Colors
- CHARLES HANNORD SKALET, of Minnesota, A.B. Luther College 1919, A.M. Johns Hopkins University 1922. Archaeology, History, and Greek  
 Sieyon: An Archaeological and Historical Study with a Prosopographia Sieyonia
- ELIZABETH MATTINGLY STALNAKER, of West Virginia, A.B. West Virginia University 1902, A.M. Columbia University 1915. Psychology, Education, and Applied Psychology  
 A Comparison of Certain Mental and Physical Measurements of School Children and College Students
- WALTER WHITE STEFFEY, of Virginia, A.B. Emory and Henry College 1912, A.M. Johns Hopkins University 1922. Physics, Physical Chemistry, and Astronomy  
 The Infra-Red Spectrum of Helium in a Long Discharge Tube. (With F. L. ROBESON)
- JOEL HOWARD SWARTZ, of Maryland, A.B. Johns Hopkins University 1915. Geology, Paleontology, and Biology  
 The Age and Stratigraphy of the Chattanooga Black Shale of Tennessee
- CHARLES SACKETT SYDNOR, of West Virginia, A.B. Hampden-Sidney College 1918. History, Philosophy, and Greek  
 Press Censorship in England, 1534-1603
- ELIZABETH TAPPAN, of Maryland, A.B. Bryn Mawr College 1910. Latin, Greek, and Archaeology  
 Some Elements of Horace's *Ars Poetica*
- ROGER KIRKBRIDE TAYLOR, of Maryland, A.B. Johns Hopkins University 1920. Chemistry, Physical Chemistry, and Physics  
 The Vapor Pressure of Aqueous Solutions of Potassium Nitrate at Twenty Degrees Centigrade
- GING-HSI WANG, of Maryland, A.B. National University of Peking 1919. Psychology, Psychiatry, and Neurology  
 The Relation Between 'Spontaneous' Activity and Oestrous Cycle in the White Rat
- HENRY THEODORE WENSEL, of Maryland, A.B. Washington University 1917, A.M. Johns Hopkins University 1920. Physics, Applied Mathematics, and Dynamical Geology  
 The Effect of Gaseous Impurities upon the Resonance Radiation of Mercury Vapor
- ANNA MARIE WHELAN, of Maryland, A.B. Goucher College 1918. Mathematics, Applied Mathematics, and Geophysics  
 The Theory of the Binary Octavie
- WILLARD ALEXANDER WHITESELL, of Virginia, A.B. Randolph-Macon College 1918. Chemistry, Physical Chemistry, and Physics  
 The Activation of Catalysts; A Study of Manganese Dioxide and Other Oxides in the Catalytic Oxidation of Carbon Monoxide
- VERTREES JUDSON WYCKOFF, of Maryland, A.B. Johns Hopkins University 1920. Political Economy, Political Science, and Psychology  
 The Policies of Trade Unions in a Period of Industrial Depression



## DOCTORS OF PUBLIC HEALTH

### WITH TITLES OF ESSAYS

- GERMAN ABADIA, of Colombia, B.Ph. e Lett. National College of St. Bartholomew 1910, M.D. National University of Colombia 1918  
History of Generic and Specific Names of the Malarial Parasites of Man
- JOHN COLLINSON, of Maryland, A.B. St. John's College 1907, M.D. Johns Hopkins University 1911  
A Study of Diphtheria Morbidity in Counties of Maryland
- ARCHIBALD SWEETLAND DEAN, of Maine, S.B. Bowdoin College 1918, M.D. Johns Hopkins University 1922  
A Lead-Poisoning Epidemic from the Sandpapering of Automobile Bodies.
- PAUL RAMSEY HAWLEY, of Indiana, A.B. Indiana University 1912, M.D. University of Cincinnati 1914  
Interpandemic Influenza
- CHARLES ROBERT LARDÉ-ARTHÉS, of San Salvador, B.Sc. e Lett. National Institute of Salvador 1913, M.D. National University of Salvador 1921  
Local Immunity
- WILLIAM CURRY MARTIN, of Kentucky, A.B. University of Kentucky 1916, M.D. Johns Hopkins University 1920  
The Effect of Cod Liver Oil and of Butter Fat upon the Metabolism of Calcium and Phosphorus
- DANIEL MURRAH MOLLOY, of Nicaragua, M.D. University of Nashville 1908  
Health Organization in Central America
- GEORGE CALVIN PAYNE, of Oklahoma, A.B. University of Missouri 1910, M.D. Cornell University 1912  
Human Infestation Studies in Porto Rico by the Egg-Counting Method
- CHALERM PROMMAS, of Siam, M.D. Chulalongkorn University 1918  
Laboratory Methods for the Diagnosis of Variola
- CATHRYN VEDALIA RILEY, of the District of Columbia, A.B. Wellesley College 1912, S.B. Cornell University 1916, A.M. Johns Hopkins University 1916, and M.D. 1922  
A Brief Study of the Duration of Tuberculosis in a Group of Acutely Fatal Cases
- ADOLPH SYLVESTER RUMREICH, of Missouri, A.B. University of North Dakota 1917, M.D. Washington University 1920  
Some Observations on Bacterial Hypersensitiveness

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## DOCTORS OF SCIENCE IN HYGIENE

### WITH TITLES OF DISSERTATIONS

- DONALD LESLIE AUGUSTINE, of Minnesota, S.B. Macalester College 1918  
Studies on the Activities of the Infective Larvae of *Necator Americanus*
- ELERY RONALD BECKER, of Colorado, A.B. University of Colorado 1921  
Studies on some Protozoan Flagellates Entozoic in the Alimentary Tracts of North American Insects
- SHULAMITE BEN-HAREL, of Palestine, A.B. Constantinople College 1918, S.M. University of Chicago 1922  
Studies on Bird Malaria in Relation to the Mechanism of Relapse
- LEMMIE ROSCOE CLEVELAND, of Mississippi, S.B. University of Mississippi 1917  
The Physiological and Symbiotic Relationships between the Intestinal Protozoa of Termites and their Host, with special Reference to *Reticulitermes Flavipes Kollar*
- MARY GOVER, of Maryland, A.B. Goucher College 1913, A.M. Johns Hopkins University 1917  
A Statistical Study of the Etiology of Benign Hypertrophy of the Prostate Gland
- RACHEL EMILIE HOFFSTADT, of Indiana, S.B. Hanover College 1908, Ph.D. University of Chicago 1915  
Bacterial Analysis of Ground Beef with Special Reference to Sanitary Standards
- BERTHA LANGWILL, of Illinois, S.B. Rockford College 1916, S.M. University of Illinois 1918  
A Determination of the Character of Acids Produced by Hemolytic and Non-Hemolytic Streptococci from Pathogenic Sources and from Milk
- HENRIETTA LISK, of Florida, S.B. Florida State College 1907, A.M. Columbia University 1917  
A Study of the Decomposition Products of Spore-Bearing Bacteria in Heated Milk
- CLAIRE McDOWELL, of Maryland, A.B. Goucher College 1917  
The Effect of Different Temperatures and Relative Humidities on the Resistance of Rats to a Pneumococcus Infection
- FLORENCE KING PAYNE, of Oklahoma, M.D. Syracuse University 1909  
Studies on the Activities of Infective Hookworm Larvae with Special Reference to Vertical Migration
- HORACE MANN POWELL, of Indiana, A.B. Indiana State Normal School 1914  
A Biological Study of the Diphtheria Bacillus
- BRUCE DODSON REYNOLDS, of Virginia, S.B. University of Virginia 1920  
Interactions of Protoplasmic Masses in Relation to the Study of Heredity and Environment in *Arcella Polypora*
- JOSEPH MEHOLLIN SCOTT, of Ohio, S.B. Mount Union College 1913  
A Critical Study of the Reaction of the Rabbit Cornea to Inoculation with Variola and Varicella Material
- NORMAN RUDOLPH STOLL, of Michigan, S.B. Mount Union College 1915, S.M. University of Michigan 1918  
Studies in Hookworm Disease Control Based on a Dilution Egg-Counting Technique
- JOSEPH CHARLES SWENARTON, of the District of Columbia, S.B. Pennsylvania State College 1918  
Higher Alcohols of Fermentation

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## DOCTORS OF MEDICINE

- ARTHUR FREDERICK ABT, of Illinois, S.B. University of Chicago 1919
- EDWIN PASCAL ALYEA, of New Jersey, S.B. Princeton University 1919
- SAMUEL A. ANDERSON, JR., of Virginia, A.B. Washington and Lee University 1919
- ROBERT STRAHL ANDREWS, of Iowa, S.B. Grinnell College 1916
- RALPH JONES BELFORD, of Texas, A.B. Southwestern University 1919
- ELSTON LEWIS BELKNAP, of Wisconsin, A.B. Oberlin College 1919
- RENA MARION BIGALOW, of New York, A.B. Goucher College 1919
- WILLIAM BLOOM, of Maryland, A.B. Johns Hopkins University 1919
- HAROLD RAY BOHLMAN, of Nebraska, S.B. Grinnell College 1919
- JOHN HENRY BUMSTEAD, of Connecticut, A.B. Yale College 1919
- ARTHUR BURNS, of Texas, A.B. University of Texas 1918
- CAROLINE ISABELLA BUTTRICK, of New York, S.B. University of Chicago 1920
- GEORGE UPSHUR CARNEAL, of Virginia, A.B. Johns Hopkins University 1919
- DONALD CHANDLER, of Delaware, S.B. Haverford College 1917
- WILLIAM EVANS CHAPIN, JR., of Virginia, A.B. Virginia Military Institute 1917
- DANA VINYARD CLARK, of Illinois, A.B. Knox College 1917
- WILLIAM LEE CLARK, of Pennsylvania, Litt. B. Princeton University 1910
- MABEL BURNETT COHN, of New York, A.B. Vassar College 1918
- THOMAS WATSON CORNWALL, of Georgia, A.B. Mercer University 1916
- CHARLES AUSTIN DOAN, of Ohio, S.B. Hiram College 1918
- KARL WILHELM EBELING, of Maryland, A.B. Johns Hopkins University 1919
- ROBERT LEE FAULKNER, of Pennsylvania, S.B. Allegheny College 1919
- HENRY TERRIE FLOYD, of Maryland, A.B. Elon College 1919
- CASPAR FOLKOFF, of Maryland, A.B. Columbia University 1917
- WILEY DAVIS FORBUS, of Maryland, A.B. Washington and Lee University 1916
- BERNARD SEMPLÉ FRENCH, of the District of Columbia, A.B. Catholic University of America 1919
- PERRY JUDSON GAMBRILL, of Tennessee, A.B. University of Tennessee 1915
- CLARENCE ZENT GARBER, of Ohio, A.B. Oberlin College 1918
- JAMES GASTON GAY, of Georgia, A.B. University of Georgia 1919
- EUGENE MAXIMILIAN KARL GEILING, of South Africa, A.B. University of South Africa 1911, Ph.D. University of Illinois 1917
- JOHN WALLACE GHORMLEY, of Kansas, S.B. College of Wooster 1919
- JOHN LAWRENCE GOFORTH, of Texas, A.B. University of Texas 1918
- LEON GREENWALD, of Maryland, A.B. Johns Hopkins University 1919
- ALAN FRANK GUTTMACHER, of Maryland, A.B. Johns Hopkins University 1919
- MANFRED SCHANFARBER GUTTMACHER, of Maryland, A.B. Johns Hopkins University 1919
- ROBERT ARNOLD HAMRICK, of Alabama, S.B. University of Alabama 1919
- HARRY EDWIN HANDLEY, of West Virginia, A.B. Washington and Lee University 1919
- JOSEPH HARRIS, of the District of Columbia, A.B. Johns Hopkins University 1919
- HARRY MILTON HAYTER, of Virginia, A.B. Emory and Henry College 1918
- JEROLD KISER HOERNER, of Ohio, S.B. Earlham College 1919
- CHARLES EDWIN HOMAN, JR., of Tennessee, S.B. Mercer University 1918
- DAVID VENABLE HUDSON, of China, S.B. Davidson College 1917
- ALFRED WILMOT JACOBSEN, of Maryland, A.B. Johns Hopkins University 1918
- RAYMOND LEMOYNE JOHNSTON, of Pennsylvania, A.B. Washington and Jefferson College 1917
- MANUEL JUSTO, of Porto Rico, S.B. University of Porto Rico 1915, M.S. Michigan Agricultural College 1917
- EDMUND HOFFECKER KERPER, of Pennsylvania, S.B. Princeton University 1918
- LAWRENCE ALBERT KOHN, of New York, A.B. Williams College 1914
- PEARL VIVIAN KONTTAS, of Oregon, A.B. Reed College 1918
- GEORGE SYDNEY LACHMAN, of Maryland, A.B. Johns Hopkins University 1919
- BERNARD WALTER LEONARD, of Virginia, S.B. Richmond College 1919
- ERIDA LOUISE LEUSCHNER, of California, A.B. University of California 1919
- ROBERT WITHERSPOON MCKAY, of South Carolina, A.B. University of Virginia 1917
- CHARLES EDWARD MCPARTLAND, of Connecticut, Ph.B. Yale University 1919
- EVERT WAITMAN MEREDITH, of West Virginia, A.B. Ohio State University 1918
- JOHN GASTON MERSELIS, of New Jersey, A.B. Williams College 1919
- WILLIAM LINDSAY MILLER, of South Carolina, A.B. Erskine College 1918, S.B. University of South Carolina 1919
- HERBERT EARL MOORE, of Ohio, A.B. Michigan State Normal College 1915
- ELIZABETH GRACE NICHOLLS, of Maryland, A.B. Vassar College 1915
- MAX ALEXANDER NOVEY, of Maryland, A.B. Johns Hopkins University 1919



- REUBEN CAREL PEARLMAN, of Kentucky, S.B. University of Kentucky 1917
- CHARLES HENRY PECKHAM, of Rhode Island, A.B. Brown University 1919
- HENRY ANDREW PETERSEN, of Maine, A.B. University of Maine 1917
- SARAH MARGARET PEYTON, of Maryland, A.B. Goucher College 1916
- MIRIAM REWALT POLK, of Pennsylvania, A.B. Goucher College 1917
- LE ROY MATTHEW POLVOGT, of North Carolina, A.B. Roanoke College 1918
- ALLAN KING POOLE, of Ohio, S.B. Princeton University 1918
- WILLIAM HUTSON PRIOLEAU, JR., of South Carolina, S.B. University of South Carolina 1918
- SAMUEL FITZSIMONS RAVENEL, of South Carolina, A.B. University of North Carolina 1918
- HERMAN H. RIECKER, of Ohio, A.B. Marietta College 1917
- MARGARET VIRGINIA ROBINSON, of West Virginia, A.B. Goucher College 1915
- ALEXANDER JONAS SCHAFER, of Maryland, A.B. Johns Hopkins University 1920
- GRACE RUSSELL SEAGRAVE, of Maryland, S.B. Denison University 1917
- PENELOPE SHERWOOD, of New York, A.B. Vassar College 1919
- EDWARD WILSON SICKEL, of Maryland, A.B. Johns Hopkins University 1920
- ISADORE ABRAHAM SIEGEL, of Maryland, A.B. Johns Hopkins University 1919
- MIRIAM ELIZABETH SIMPSON, of California, A.B. University of California 1915, and Ph.D. 1921
- FRANKLIN FAUST SNYDER, of Pennsylvania, S.B. Princeton University 1919
- SUSIE PAGE SOUTHER, of Nebraska, A.B. University of Nebraska 1918
- WALTER BLAIR STEWART, of New Jersey, S.B. Princeton University 1920
- THOMAS HENRY SUTHERLAND, of Ohio, A.B. Ohio State University 1919
- GEORGE BRADLEY SYBERT, of Maryland, A.B. Loyola College 1919
- HERBERT FREDERICK TRAUT, of Washington, S.B. Whitman College 1917
- VINCENT DAVIS VERMONTEN, of South Africa, A.B. University of Cape Town 1918 and A.M. 1919
- EUGENE BENTON VICKERY, of Georgia, A.B. North Georgia Agricultural College 1919
- PIERRE JAQUA WALKER, of California, A.B. University of California 1917
- PAUL CHAMBERLAIN WALTER, of Pennsylvania, S.B. Princeton University 1919
- ARTHUR PAUL WILKINSON, of Indiana, A.B. Wabash College 1917
- TIFFANY JOHNS WILLIAMS, of Maryland, A.B. Johns Hopkins University 1919
- HENRY VAN PETERS WILSON, JR., of North Carolina, A.B. University of North Carolina 1918
- JULIUS LANE WILSON, of New York, S.B. Princeton University 1918
- ROBERT MORRIS WYLIE, of West Virginia, A.B. Denison University 1904
- JAMES ARTHUR YORK, of Maryland, A.B. Randolph-Macon College 1916
- PAULINE ZINNINGER, of Ohio, A.B. Oberlin College 1917

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Individuals previously graduated, . . .	4658
Recipients of degrees, June 12, 1923, . . .	333
Total number of individuals graduated, . . .	4991
In addition, certificates of proficiency to, . . .	124



## MUSIC

The program is under the direction of Edwin L. Turnbull (A. B. '93) and will be presented by the Johns Hopkins Orchestra, Charles H. Bochau, Conductor, and Bart Wirtz, Assistant Conductor.

The orchestra was founded in 1919 by the Johns Hopkins Musical Association, with the object of promoting good music in the University and community. The officers are E. L. Turnbull, *President*; F. H. Gottlieb, *Vice-President*; Frank Morley, *Secretary*; J. B. Whitehead, *Treasurer*; F. C. Smith, *Executive Secretary*; Miss Anne Kinsolving, *Assistant Secretary*. Rehearsals are held on Tuesday evenings in the Concert Hall of the Peabody Institute, and an excellent opportunity for free instruction in orchestral playing, under experienced teachers, is offered to members of the University and to outside musicians, both men and women. The orchestra has given thirty-four symphony concerts, all free except two, including a number in hospitals and other institutions. It has played eight times for the public exercises of the University. The sixth season will open early in October.